

What is claimed is:

1. A diagnostic method for monitoring at least one plug-in connection to an antenna, in particular a plug-in connection in the antenna signal path to a window-integrated antenna of a vehicle, having the following steps:
  - a diagnostic signal is supplied via the antenna signal path toward the antenna (1),
  - the diagnosis signal bypasses an active circuit (31) provided in the antenna signal path,
  - the power supply of the active circuit (31) is influenced depending on whether the diagnostic signal is affected by an error due to the at least one plug-in connection (4),
  - it is detected whether the power consumption of the active circuit (31) is outside a predefined window, and if that is the case, an error is signaled.
2. The diagnostic method as recited in Claim 1, wherein the DC power supply signal for the active circuit (31) is used as the diagnostic signal.
3. The diagnostic method as recited in Claim 1 or 2, wherein the diagnostic signal travels through a diagnostic resistor (8); the voltage drop across the diagnostic resistor (8) is monitored; and in the event of an error at the at least one plug-in connection (4), a power supply interrupter (10) for the active circuit (31) is activated via the voltage drop across the diagnostic resistor (8).
4. The diagnostic method as recited in Claim 1 or 2, wherein the diagnostic signal, after passing through the antenna-side plug-in connection (4), is fed back to the active circuit (31), specifically to its power supply terminal (32).

5. The diagnostic method as recited in one of Claims 1 through 4,  
wherein the diagnostic signal bypasses a diversity device (21) provided in the antenna signal path and is subsequently fed back into the antenna signal path.
6. The diagnostic method as recited in one of Claims 1 through 5,  
wherein the diagnostic signal is phantom-supplied via the antenna signal path, i.e., its RF cable (5).
7. A diagnostic device for monitoring at least one plug-in connection to an antenna, in particular a plug-in connection in the antenna signal path to a window-integrated antenna of a vehicle, having the following features:
  - means for generating a diagnostic signal and for feeding this signal into the antenna signal path toward the antenna (1),
  - means for enabling the diagnostic signal to bypass an active circuit (31) in the antenna signal path (31),
  - means for influencing the power supply of the active circuit (31) depending on whether the diagnostic signal is affected by an error due to at least one plug-in connection (4),
  - means for detecting the power consumption of the active circuit (31) and for signaling an error if the power consumption is outside a predefined window.
8. The diagnostic device as recited in Claim 7,  
wherein a diagnostic resistor (8) is provided in the bypass branch of the active circuit (31), and the diagnostic resistor (8) is connected to an analyzer (9), via which a power supply interrupter (19) for the active circuit can be operated.

9. The diagnostic device as recited in Claim 7 or 8, wherein means are provided for feeding back the diagnostic signal to a power supply terminal (32) of the active circuit (31) after it has passed through the antenna-side plug-in connection (4, 43).
10. The diagnostic device as recited in one of Claims 7 through 9, wherein a phantom supply of the diagnostic signal, which is the DC power supply signal for the active circuit (31) in particular, is provided via the antenna signal path, i.e., its RF cable (5).